

PATENT COOPERATION TREATY

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PCT

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

(PCT Rule 43bis.1)

Date of mailing (day/month/year) **31 May 2005 (31.05.2005)**

Applicant's or agent's file reference
BZ04-85-WOIC

FOR FURTHER ACTION
See paragraph 2 below

International application No.
PCT/KR 2004/003160

International filing date (day/month/year)
2 December 2004 (02.12.2004)

Priority Date (day/month/year)
2 December 2003 (02.12.2003)

International Patent Classification (IPC) or both national classification and IPC
H04Q 7/30, 7/32, 7/00

Applicant

LG ELECTRONICS INC.

1. This opinion contains indications relating to the following items:

- ☒ Cont. No. I Basis of the opinion
- ☐ Cont. No. II Priority
- ☐ Cont. No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Cont. No. IV Lack of unity of invention
- ☒ Cont. No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Cont. No. VI Certain documents cited
- ☐ Cont. No. VII Certain defects in the international application
- ☐ Cont. No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

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10/577072

Continuation No. I

Basis of the opinion

1AP20 Rec'd PCT/PTO 24 APR 2006

1. With regard to the **language**, this opinion has been established on the basis of the international application in the language in which it was filed.

Continuation No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims 1-7	YES
	Claims ----	NO
Inventive step (IS)	Claims 1-7	YES
	Claims ----	NO
Industrial applicability (IA)	Claims 1-7	YES
	Claims ----	NO

2. Citations and explanations:

The following documents are cited in the search report:

D1: EP 1 146 758 A1
D2: EP 0 946 070 A2
D3: US 2002/0150064 A1
D4: US 5 930 242 A
D5: JP10065612 A (abstract)

Document D1 refers to a radio communication apparatus comprising a generator for generating a transmission power control bit according to the result of comparison of an updated reference value and a value indicating measured reception quality.

Document D2 concerns a method of controlling transmission power in cellular systems and base station apparatus. The base station compares the reception quality of the signal transmitted from the mobile station with the target reception quality and determines an increment for the transmission power of the base station based on a compared result.

The subject matter of document D3 relates to a unit for transmitting data blocks in acknowledged mode on a channel featuring a radio link with a mobile station, wherein the control means comprise means for processing the acknowledgement information received from the address unit in response to the reception of a block having the acknowledgement-control field activated, to assign a first state to the blocks of the sequence which are acknowledged by the address unit.

Document D4 discloses a method of controlling a transmitting power of a base station of a mobile communication system, said method comprising: monitoring, at said base station, a total transmitting power of said base station; comparing said total transmitting power with a predetermined value; and controlling a transmitting power of a pilot signal based on said comparing.

Document D5 refers to transmission control in terminal of cellular radio system using closed-loop control when acknowledgement packets, expressing that packets are successfully received, are available.

However, none of said documents discloses determining a power of a transmission signal transmitted via the forward-acknowledgement channel using an increment for a reference transmission power value of a boost mode in case that the packet transmission control information contains a boost operation, as recited in claim 1 of the present application.

Beyond that, none of said documents discloses a method of acknowledgement control comprising the steps of determining a boost mode threshold using an increment for a boost mode reference threshold in case of boost mode operation and deciding a presence of non-presence of acknowledgement using the threshold as recited in independent claim 5 of the present application.

Thus the subject matter of claims 1 and 5 meets the requirements of novelty and inventive step.

The subject matter of the dependent claims can be considered to be new and inventive by virtue of dependency.